Hungarton-and Tuyonlay Airfields

Formor

The furmer Numbers neuthwest of Number, on the read from Apatin, and only an area approximately two by three bilameters.

it has mily one taberaff runway, which is sampletely intent and summistance. It is about 1,800 meters in length and 30 to 80 makers in width, and deten from the time of the thream secureties.

A few minimum rando and an undergrand genelius dump have been field numbershed alone than. The seem is surrounded by a fence. There is nully min alone to insure, managery makes by the meters, with a minurate flam.

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in height, surveyunded by inched airs, dinne the guard past is fabrily
important, it is pushible that the radio station has already been set up.

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These aircraft have a wingspread of about 12 meters, retractable landing gear. During this period the presence of the following has been noted:

- 5 1 German aircraft, Heinkel, "Bleistift" (Lead-Pencil) type
- 2 Italian aircraft
- 1 other German aircraft

Several Russian biplanes.

The airfield is essentially military.

Twelve Russian bombers are used for training pilots. Bombing practice is held. There is no parachute practice.

Personnel are divided into three groups (totalling 1,000 men):

Instructors

Student pilots

Quard units.

About 800 German prisoners of war work in the various airfield installations.

Skoplje

The airfield is located one kilometer from the town. It has an area of two by six kilometers.

No concrete surfaces.

The buildings are in good condition except for one large one which had not yet been restored at the end of 1948. All the buildings are located south of the field.

The control tower and meteorological station are located at the side.

The four barracks buildings were in the following condition at the end of 1948:

- 2 completely reconstructed
- 1 almost completely reconstructed
- 1 in process of reconstruction.

Each building is 60 by 15 meters and consists of a ground floor and one upper story.

SECHET

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EGRET

At the center of the southern side of the field there are two metal pylons, 35 meters in height. In 1947 a zame radio station was built side of them. On the same side, farther to the east, there is a warehouse 100 meters in length.

The aircraft are kept in five hangars made of iron and corrugated sheet metal, 20 by 40 meters in size.

The gasoline supply is in the southeastern corner of the field. A railroad coming from the west leads to it.

There are not more than 50 aircraft stationed at the field, fighters and combat aircraft of Russian type, carrying a crew of two men.

Air traffic is very heavy, but is halted at times by a shortage of gasoline.

Landing accidents are frequent.

There are very few transports aircraft, an average of two per month. Parachute practice has been held a few times, using Junkers 52's. There are no Russian personnel.

Sketch: Sombor Airfield, about 150 kilometers from Belgrade.

Scale: about 1:5,000

Keyı

Vers Agatim -- toward Agatin

Vers Sombor -- toward Sombor

Palisade -- fence

Mess des officiers -- Officers' mess

Garage et atelier de réparations -- garage and mpair workshop

Caserme -- barracks

Cuisines -- kitchens

Poste de garde -- guard post

Tour d'émission -- transmitting tower

Hangar d'avions -- aircra?t hangar

Bétonné -- concrete

Tour de contr. -- control tower

Souterrain -- underground

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Station météorologique -- meteorological station

Pomperéressence -- gasoline pump

Magnata. -- warehouse

Vers Sombor -- toward Sombor

Stand de tir pour armes de bord -- firing range for aircraft weapons

Reservoirs d'es. souterrains -- underground gasoline storage tanks

Route (rte) bétonnée -- concrete road

Aire de garage pour avions -- area where aircraft are kept

Piste d'envol bétonnée -- concrete takepeff runsay

Largenr 50 m. - long. env. 1500 m. -- width 50 meters, length about 1500 meters

Dépot souterrain de munitions 4 500 m -- underground ammunition dump at 500 meters

Champ d'aviation -- airfield

Route vers dépot de mum. -- road to ammunition dump

D.C.A -- antisiroraft defense

Petrovac

The old Petrovac airfield, between Skoplje and Kumanovo, is supposed to have been enlarged and modernised.

II. Command of Yugoslav Aviation and O.D.B. /sig/

Commander: General Zdenko Ulepie

Chief of R. M. ii. Victor Bubanj

Political commissar: Colonel Milija Stanisic

Commander of air schools: Major General Dusan Matejic.

First Division

Commander: Miuko Scepanovic

Third fighter regiment at Skoplje (50 JAK's, one transport aircraft. two Storohs)

524th (50 MAK's, models 1 and 2, one Pe 2, one Bucker trainer).

421st, at Mis (same aircraft and same number of them, plus one transport aircraft). SEGBLA

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Second Division

SEURET

113th fighter regiment at Cerklje (15 MAK's)

422nd, at Bresice (27 MAK's and two U 2 trainers)

423rd, at Velika Gorica (25 MAK's and two trainers).

Third Division

112th fighter regiment at Devica-Marlja (25 YAK's), one transport aircraft, two trainers)

128th fighter regiment (has been placed at the disposition of the navy).

1

Fourth Division

Commander: Colonel Sawo Poljanac

41st bomber regiment (35 Pe 2's and two transport aircraft).

Fifth Division

524th bomber regiment at RavnagGora (the aircraft are Soviet BB2's and SB3's).

All of this regiment's aircraft are used mainly for bomber training. Sixth Division

Exists only in theory.

Transport Groups at Zemun

Commander: Lieutenant-Colonel Vlado Simio

Adjutants: Captain Ratko Niksio

Coserver: Lieutenant Drakulic

Squadron commanders: Lieutenant Fabijanovic, Captain Pepel.

Political commissar: Matijevic.

First squadron: has 10 Junkers 52's and two W 34's.

Second squadron: has 5 Bucker's, four U2's, two Storchs, two Pe 2's.

The meteorological school has been transferred from Kraljevo to Zagreb.

SEGRET

Rough to Marthold (sealer about 1/40,000

Keyı

SEGRET

Hotel (detruit) -- terminal (destroyed) Tour de contrôle -- control tower Casernes -- barracks Station emetrice -- transmitting station Hangars pour avions -- aircraft hangars

Antennes -- antennas

Magasin -- warehouse.

III. Movements of Units

Bomber regiments Nos. 411 and 412 have been transferred from the Ljubljana sector to Skoplje airfield.

IV. Transport Aviation

On the Tugoslav Aviation staff there is a section known as (Odelenje Zavasdusni Saobracaj" (Air Transport Section), directed by Colonel Djordj Jovanovich, former officer in the Austro-Hungarian army, prisoner in Italy from 1941 to 1945.

- 1. Civilian air transportation has 24 aircraft at its disposal. The pilots and crews are all civilians but ere under the military administration.
- 2. Military air transportation comprises two regiments, one stationed at Zemum, the other at Ljubljana. The total number of military aircraft available is 36, consisting of Douglases, Junkers 52's, and two Avia Peaker (? 0 13legible).

The Soun regiment comprises four squadrens of these aircraft

Miscellaneous

The regions air commander. Chlasne Kommande (non-flying personnel) re aix in number and have the proregatives of the division

- 2. Regions2 commender at New Sad
- 2. Regional commander at Skoplje
- 3. Regional commander at Mostar
- 4. Regional commander at Zagreb
- 5. Supposed to be at Sombor (under the reserves)
- 6. Is the commander of schools and is in Panceve.

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V. Russian Personnel

At the beginning of April there were three Russian officers attached to the Sixth Air Division: Cosmkof, Zalewsky, Grantcharof.

Eighteen Yugoslav officers who took the advanced course in the USSR returned two months ago and have y been placed according to the different staffs.

VI. Desertions in the Air Command

Three Yugoslav air corps officers landed in Rumania, escaping from Yugoslavia. They were: Colonel Choubec, commander of the Belgrade air base, Captain Bur Doubites, chief of staff, and Abranovisch, commander of the parachutist air base at Belgrade.

Following a political rally at the Belgrade air base on the occasion of the criticism of the Kominform stand against the Tugoslav Communist Party, 15 officers declared that it was necessary to effect a reconciliation with the Kominform, cost what it might; they were placed under arrest. Among them was Lieutenant Colonel Rokonik.

A month ago the air corps Lieutenant Colonel Yiovan Skede was also penalized for declaring himself in favor of Stalin and the USSR. He was subsequently sentenced to three years in prison by a court martial. At the reading of his sentence Hovan Skede replied, " Today you are themasters, but do not forget that some day the people will place you in the defendant's seat to give account for yourselves. Long live the heroic Soviet Union! Long live Stalin!"

These words caused his sentence to be increased from three to eight years.

At present the following are imprisoned in Yugoslavia: General Danko Petrisovison Lieutugant Slade Dabbesevison

A hundred other officers who have declared themselves to be in favor of the USSR.

DULLE 1

CATALITIC NUMBERSOND HUBATION OF CARROLL THROUDS WITH CLUSTUR. II. INVESTIBATION OF THE LEGGIE PRODUCTS OF HYDROCCUDINSATION OF CARROL HOMOTIDE WITH STRYLLIN. Ye. T. Eigus, N. D. Schinghill and H. V. Furitoidi

(Institute of Organic Chamistry, Academy of Sciences, USSR)

IZVESTIYA AMADOMII NAUK SSSR, OTDOLLUITE HILLSCHOLDH KAUK (Bullotin of the Action; of Sciences, USSR, Department of Chemical Science) 1949, 326,32

This is a complete translation of the original carticle, except for sections of apparently minor importance, which are abstracte; and distinguished by wide parsing.

AUTHORS' STIMMARY

- 1. Preducts of hydrocondensation of carbon monomics with othyleno were investigated.
- 2. It was established that the oily part of the condensate contains 2 3% by volume exygonated organic compounds, the equeous part 10%; proppl alcohol constitutes the major portion of these compounds.
- 3. The content of aldehydes amounts to 0.9% of the oil and to 1.9% of the reaction water. Propieneldebydo was identified; no kotones are present.
- 4. In the aqueous layer 1.5% by volume organic acids were found, of which 70% constitutes propionic acid.
- 5. The data obtained reveal that expensed compounds with 3 carbon atoms in the melaculo, i.e., those resulting from interaction of 1 melocule carbon monomide with I molecule othylone, predominate.
- 6. The hydrocarbon portion of the liquid condensate is a complex mixture of aliphatic saturated and unsaturated hydrocarbons boiling within a wide temporature rango.
- 7. The presence of fractions corresponding to hydrocerbons with oven (C_6 and C_8) and odd (C_5 and C_7) numbers of carbon atoms was shown by distillation. These compounds result from interaction of ethylens and its polymers with mothyleno

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8. The mothylene radical and not carbon monoxide participates in the formation of hydrocarbons. This is confirmed by the fact that condensation of carbon monoxide with ethylene does not take place in the absence of hydrogen.

The catalytic hydrocondensation of carbon monoxide with ethylene was proviously described. In the present work some results of the study of liquid reaction products obtained from the mixture CO: 2H2: 3C2H, at 190° are reported.

Assuming that exygenated compounds will be present in the condensate simultaneously with hydrocarbons and water, the cily as well as the aqueous portion of the condensate was studied. The data obtained possitted an estimate of the amount of exygenated compounds in the cil as 2 - 3% by volume. They consist principally of propyl alcohol, identified as the ester of 3-nitrophthalic acid (m.p. 141°). No alcohols of a higher molecular weight were found in the cil. In the equeous portion of the condensate up to 10% by volume exygenated compounds were found, for the most part also propyl alcohol. Aldehydes assume 0.9% in the cil and 1.9% in the reaction water. Only proplemsIdehyde was identified as the dimedone derivative (m.p. 155°). Ketones were absent. The aqueous layer contained 1.5% by volume organic acids, of which over 70% consisted of propionic acid, identified as its silver calt.

These data undoubtedly show that oxygenated compounds with 3 carbon atoms in the molecule predominate, which in turn indicates that reactions involving the interaction of 1 molecule of ethylens with 1 molecule of carbon monomide play an important part in the formation of these compounds. As previously assumed, hydrogen also participates in these reactions and thus triplet reactions, shown in the first communication of this series under II, take place (1).

An investigation of the major portion of the liquid hydrocarbons freed of gases confirmed the authors' view on the hydrocardenisation of carbon monoxide with ethylene as previously stated (1). The hydrocarbon portion of the liquid condensate was found to be a complex mixture of alighatics, saturated and unsaturated hydrocarbons boiling within 27 and 420°. This mixture resembles synthin. Fractionation under a column of 40 theoretical plates indicates the presence of hydrocarbons with odd numbers of carbon atoms: C_5 (fractions 29° - 39°) and C_7 , as well as those with even numbers of carbon atoms, C_6 and partly C_8 , as shown by the plateaus on the distillation curve shown in Fig. 1. Fractions C_5 and C_7 indicate that methylene radicals are formed by hydrogenation of carbon monoxide and participate in the formation of hydrocarbons, as postulated previously (1). Condensation of ethylene with carbon monoxide in the absence of hydrogen confirmed that methylene radicals and not carbon monoxide molecules participate in these processes. When mixtures of ethylene and carbon monoxide

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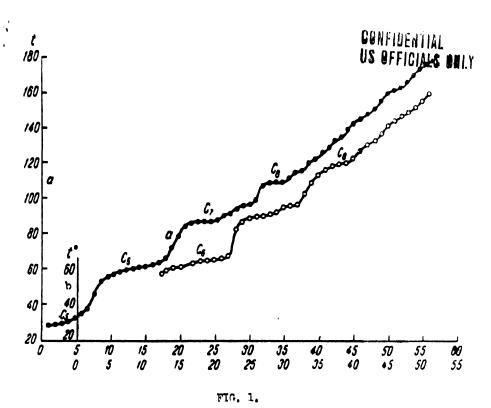


TABLE 3

Volume on the Initial Oil	d 40	n D 20	Bromine No.	Per Cent Unsaturated
12,5 10,5 15,0 13,5 20.0 12,0 4,0	0,6470 0,6909 0,7081 0,7285 0,7698 0,7876	1,3760 1,3880 1,4017 1,4130 1,4281 1,4412	143 101 69 73 39 20	67 57 46 56 40 34
-	0,7226	1,4203	74	56
	-	— 0,7226		— 0,7226 1,4203 74

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ware passed over the embely at under the same conditions no condomsation took place.

In the fractions of the preduct obtained by hydrocondensation in the presence of ledgengon, the content of unsaturated hydrocondons drops with rise of the boding result of the fractions.

EXPERIMENTAL PART

The liquid product of hydrocondensation of carbon monocide with athylene was divided into an oily and ar equacus part. The first was obtained by combining the "heavy oil," which was condensative the first receiver at room comperature, with the "light oil," collected in the second receiver at -30". In the oil as well as in the reaction rates the exponented compensative determined, that is, alcohols, acide, alcohyles and tectores.

The off separated from the reaction water and gas van twented with a 5 H accross solution of sedium valoration and represently read a with water. From the mixture of the alkaline and not with water neutral argenic compared a necessaries by the method of Resusalization, fellowed by salting out with potent. The action over part of the solution, fellowed by salting out with potent. The action salts of the acids contained in the alkali residue were converted into ciliver salts. The old was uncled with alkali and water, Cried and freeticented. Specific gravitates and reflective indexes were determined for individual fractions and the contexts of resolutated calculated from their breaks members. The reaction water was twested with 5 H aqueous action hydroxide and the motion of calting out (2) gain applied. Usually the reaction water was combined with the mixture of the alkali critical and wash water from twenting the old. In individual cases the old separated from the aqueous layer and dried was fractionated, and the full-vidual fractions investigated for the oxygenesise contained in them.

Alsohols were identified as esters of 3-nitromophibalic cold by reacting them with the anhydride of this acid (3). Alsohols beiling above 100° were determined as their esters by reaction with acotic embydride followed by hydrolysic with thirated alkali and titrating back the remaining alkali. The aldohydes were identified by their reaction with dimedone (6). Their quantitative determination was based on the exgenemetric method (7) and the ledematric (8), both giving well agreein; results.

For the investigation of the liquid products of hydrogen condensation of carbon monoxide with ethylone, 400 ml. oil and 120 ml. receiven mater were accumulated, obtained in prolonged tests, using a series of catalysts of the same composition.



50X1-HUM

Algebraha

From MO 12, all meantred on described allows 3 mil. appeals comparable wars of his said. From 100 mil. temperation under 100 mil., a cyclical relationship wars recovered. The two mass condition, distributed or conditional potenty distributed into 3 from them and each respundingly transfer with best monographic tempeted and telefaction of the containing better them of the containing potent them are distributed appealant of the mediant potent them are distributed appealant or appealant of the mediant potent them are distributed appealant or appealant or all the positional and appealant or all the contained or appealant of the contained or and the contained or appealant or a contained or a

Auden

The combined rectioned of all miles collections of defined in two forms of the 150 mil. oil position till rection hydrogy), as no discrete defined, were found of nontreal comparated compounds by distillibration, or upravided to degrees, the testion decomposed with 100 millionic noist, estimated with allow, in Lightle oil communical fixed fixed into land lend rections and then the televisional fixed in prophenic maid.

Aldehalen nad Nel orec

A sendo of oil not broated with alled that vater about a 0.90% by solute content of allehydes calculated as propie - aldehyde by both the argumentals and helecotate matheds. In the reaction rates the engancement matter and calculated as propiesed things, the dedecates, 1.95 by values of detailed calculated as propiesed to by tedestries, 1.95.

Hedrorariona

Fractions of a 200 ml. partim of cil weight with alkaliand water and dried with subgroup action cultimis gave the date shown in Fig. 1 (Gueva b); the fraction 20 - 60° is not represented in this curve. The fractions represented by the date of toble 3, 525 by volume, were distilled off within 27 - 160°. The fraction 5, 160 - 255°, was reducted in this precision were recitabilized separately. The distillation curves a and b (Fig. 1) are identical in character. The curve a wefers to the

DESTRUCTION OF STREET

distillation of a 53 ml. sample of the oil freed of reaction rater and gas and dried over anhydrous copper sulfate. It had a d(20/4) 0.7364 and n(20/0) 1.4150, and was distilled under a column of 40 theoretical plates packed with metallic holices, a 56.4% by volume distilling within 27 and 179°. Both curres reveal plateaus corresponding to hydrocarbons with 6, 7 and 8 carbon atoms. Tables 1 and 2 report the data of these two distillations and indicate the volume per cents of the various fractions calculated on the total condensate boiling within 27 and 420°.

The surve a revials a fraction with five earben atoms amounting to 6.6%.

	Table 1							1
Boiling range, °C	29-39	39-35	55-73	73-87	87-1.00	100-112	112-129	129-151
For cont by volume	6.6	1.,)	20.3	2.8	9.4	4.7	5.7	5.6
c _k	05	Beed in	c ₆		07		cg	CG

			productive porce, or the 6 feeting of the	AND THE OWNERS AND THE PARTY OF	Tal	2 0.0
Boiling range, °C	59-68.5	58 . 5-88	88103	103-110	110-128	128-147
Per cent by volume	9.5	2.0	9.0	1,0	7.0	6.0
c _k	c ₆	d at eye	c ₇	84-181	c ⁸	c ³

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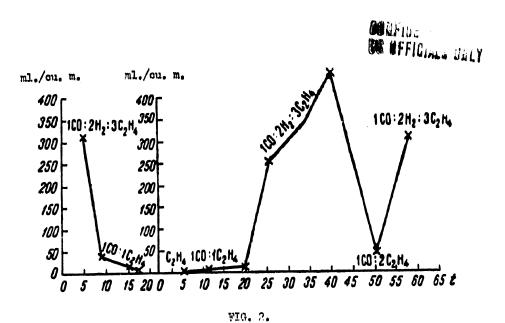


TABLE 4

Catalyst	Experiment No.	Feed Gas	Duration of Experiment, Hours	Space Velocity	Per Cent Contraction	Heavy Oil	Light of l	Sum of Heavy and Elight Oils	Water	Yield of Heavy and Light Oils, ml./hr.
20 20 20 20 6 6 6 6 6	132 133 134 135 136 137 138 139 140 141 142 143	1CO: 2H ₂ : 3C ₂ H ₄ 1CO: 1C ₂ H ₄ 1CO: 1C ₃ H ₄ 1CO: 2H ₂ : 3C ₂ H ₄ 1CO: 2H ₂ : 3C ₂ H ₄ 1CO: 2H ₃ : 3C ₂ H ₄ 1CO: 2H ₃ : 3C ₂ H ₄ 1CO: 2H ₃ : 3C ₂ H ₄ 1CO: 1C ₂ H ₄	6,5 3,0 6,5 4,5 6 7 7 7 7 11 5	89 99 76 96 134 132 123 125 127 86 103 125	57,3 4,8 3,2 7,4 10,9 10,8 8,3 48,7 60,7 61,9 7,0 50,9	100,5 0,0 8,0 8,3 0,0 0,0 2,5 100,1 144,1 139,8 27,2 63,0	39,8 8,0 4,1 0,0 4,7 2,5 149,6 196,9 316,9	315,1 39,8 16,0 12,4 0,0 4,7 5,0 249,7 341.0 456,7 43,0	3,5 8,0 8,3 0,0 0,0 25,0 54,3 74,6	25,7 3,5 1,1 1,2 0,0 0,56 0,56 28,5 39,3 35,5 4,0 35,2
	Į.	1	1	1	1	1	l ∳	l Instankon	3 4 14	

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The condensate is men to consist of a mixture of aliphatic hydrocarbons, over half of which are immaturated (Table 3). The fractions 1, 4 and 6 were boiled over notallic sedim for 7 hours and subjected to a browner number test, which showed almost no charge, and gave 137, 73 and 20, respectively.

Continuention in the Abnance of Hydrogen

The important part played by mothylene radicals in the condensation of carbon monoxide with ethylene was pointed out above. Experiments in which carbon monoxide was condensed with othylene in the absence of hydrogen are reported in Table 4 and Fig. 2, and those numbered 133-135, 137-136 and 142 confirm that virtually no condensation occurs in the absence of hydrogen; consequently, that it is mothylene radicals and not molecules of carbon monoxide which participate in the reaction. The small amounts of products (12-16 ml./cu. m.) can be assorbed to the presence of a slight amount (3 - 43) of hydrogen in the initial gas mixture.

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